|   | Index of Claims                                  |          |                       |          |           |                 |           |                 |                |                |            |          | Application No. |          |                     |                  |              |           |                     |            |  | Applicant(s) |                |          |           |          |               |                     |          |           |             |        |
|---|--|----------|-----------------------|----------|-----------|-----------------|-----------|-----------------|----------------|----------------|------------|----------|-----------------|----------|---------------------|------------------|--------------|-----------|---------------------|------------|--|--------------|----------------|----------|-----------|----------|---------------|---------------------|----------|-----------|-------------|--------|
| ) (100) (100) 100) 100) 100) 100 (100) 100 (100) 100) |  |          |                       |          |           |                 |           |                 | 10/632,238     |                |            |          |                 |          |                     |                  |              |           | VAIDYANATHAN ET AL. |            |  |              |                |          |           |          |               |                     |          |           |             |        |
|   |  |          |                       |          |           |                 |           |                 |                |                |            |          |                 |          |                     |                  | Examiner     |           |                     |            |  |              | Art Unit       |          |           |          |               | -                   | N E      | _         | <del></del> |        |
|   |  |          |                       |          |           |                 |           |                 |                |                |            |          |                 |          | Stephen R Funk      |                  |              |           |                     |            |  |              |                |          |           |          |               |                     |          |           |             |        |
|   |  |          |                       | _        | _         |                 |           |                 |                |                |            |          |                 |          |                     | Stephen R F      |              |           |                     | ( Funk     |  |              |                |          | 2854      |          |               |                     |          |           | •           |        |
|   |  |          |                       | Ι.       | Rejected  |                 |           | $\Box$          |                | (Through numer |            |          |                 |          | 7                   |                  |              |           |                     |            | d  |              | <del>.</del> . |          |           |          |               | ٦                   |          |           |             |        |
|   |  |          | √                     |          |           |                 |           | -               | Canc_lled      |                |            |          | ed              |          |                     | N                | Non-Elected  |           |                     | A          |  | Appeal       |                |          |           | İ        |               |                     |          |           |             |        |
|   |  |          |                       |          |           |                 |           | H               |                |                |            |          | +               |          | H                   |                  |              |           | -                   | $\vdash$   | <del>                                     </del> |              |                | 4        |           |          |               |                     |          |           |             |        |
|   |  |          | =                     | 1        |           |                 |           | ÷               |                | F              | Restricted |          |                 |          |                     |                  | Interference |           |                     | nce        | ce   | 0            | Objected       |          |           | İ        | ٠             |                     |          |           |             |        |
|   | _  | 1 : •    |                       |          | D-1-      |                 |           |                 | <u>ا</u>       |                |            |          |                 |          |                     | _<br>            |              | 100       |                     |            | 1111   |              | Ц              |          |           |          | J             |                     |          |           |             |        |
|   | -  | Claim    |                       | -        | Date      |                 |           |                 | 17             |                | <u> </u>   | laim     |                 |          | 7                   |                  | 9            |           |                     |            | С  | Claim        |                | Date     |           |          |               |                     |          | ]         |             |        |
|   | Final  | Original | 40/06/2               |          |           |                 |           |                 | $\{\ \}$       | i              | ्र ह       | Original |                 | 11       | 1                   |                  |              |           | 1                   |            |  | <u>a</u>     |                |          | -         | 1        | '             |                     |          |           |             |        |
|   | i i i  | Oric     | 13                    |          |           |                 |           |                 |                |                | Final      | Orig     | ,               |          |                     |                  |              | ĺ         |                     | 1          | Final  | Original     |                |          | 1         | 1        |               | ł                   |          |           |             |        |
|   | -  | 1        | 0                     | H        | +-        | Н               | +         |                 | $\vdash$       | -              | _          | 51       |                 |          | _                   | -                | -            | 4         | - -                 | -          |  | .1           | Ш              |          | _         |          | 1             |                     |          | L         |             |        |
|   |  | 2        | Ĭ.                    |          |           |                 | ╧         |                 |                | ٦.             |            | 52       |                 |          | +                   | +                |              | +         | -                   | -          | <u> </u>   | 101          | ╁┼             | +-       | -         | +        | +             | $\vdash$            | $\sqcup$ | _         |             |        |
|   | -  | 3        | $\parallel$           | L        | $\bot$    |                 | II.       |                 |                | ]              |            | 53       |                 |          |                     |                  |              | _         | $\top$              | -          | _  | 103          | -              | +        | ╁         | +        | ╁             | $\vdash$            | $\vdash$ | $\vdash$  | -           |        |
|   | -  | . 5      | ╢┤                    | -        | ┼         | $\vdash \vdash$ |           | +-              | $\vdash$       |                | -          | 55       |                 | Ш        | _                   | $\blacksquare$   | $\perp$      | $\perp$   |                     | ] .        |  | 104          |                |          |           | İ        | t             |                     |          |           | 1.          |        |
|   |  | 6        |                       |          |           | $\vdash$        |           | +               | $\vdash$       | ╣.             | -          | 56       | +-              | H        | +                   | +                | -+           | +         | -                   | -          | _  | 105<br>106   |                | - -      | +-        | ļ.       |               | L                   | П        |           |             |        |
|   | <u> </u>   | 7        | $\parallel \parallel$ |          |           |                 | $\perp$   |                 |                | Įį.            |            | 57       |                 |          |                     |                  | $\top$       | $\dagger$ | $\top$              | 1.1.2      | -1:  | 107          | $\vdash$       |          | ╁         | +-       | +             | $\vdash$            | ⊬        | · -       |             |        |
|   | -  | 9        | ╫┤                    |          | ┼         | -1              | -         | +               | ╁┼             | - 2            | (i)        | 58       |                 |          |                     | $\Box$           | ].           | 7         |                     |            |  | 108          |                |          |           |          |               |                     |          |           |             |        |
|   |  | 10       | HH                    | _        | $\vdash$  | -               | -         | +               | <del>   </del> | 4              | -          | 59<br>60 |                 | ⊣        | +                   | +                |              | -         | -                   |            |  | 109          |                | 1        | 1         | Ļ.       | $\sqsubseteq$ |                     | П        |           |             |        |
|   |  | 11       | Ш                     |          |           |                 | 工         |                 |                |                |            | 61       | 1               | $\Box$   |                     |                  | $\dashv$     | +         | +-                  |            | -  | 110<br>111   | 1111           | +        | ╁╌        | ┼        | +             | $\vdash$            | $\vdash$ | $\dashv$  |             |        |
|   | -  | 12       | ++-                   |          |           | -+              | -         | -               | $\vdash$       | -Ja            |            | 62       | $oxed{\Box}$    |          | $\perp$             |                  | 工            |           |                     | 174        |  | 112          |                |          | 1         |          | 1             | -                   | $\vdash$ | $\dashv$  | I           |        |
|   | 1  | 14       | HH                    |          |           | +               | +         | +               |                |                | -          | 63<br>64 | +               | $\vdash$ | +-                  | +                | +            | -         | +                   | 46         |  | 113          | $\perp$        | Ţ.       | L         |          |               |                     |          |           | ı           |        |
|   |  | 15       |                       |          |           |                 |           |                 |                |                |            | 65       | $\dagger$       | $\vdash$ | +                   | +                | +            | +         | ╁                   |            |  | 114          | G)             | ┰        | +         | ├-       | $\vdash$      | $\vdash \mid$       | $\vdash$ |           |             |        |
| ٠.  | <del> </del>                                     | 16<br>17 | #                     |          |           |                 | _         | $\perp$         |                | 7              |            | 66       |                 |          |                     |                  |              |           |                     |            | - 3  | 116          | +              | +-       | -         | 一        | $\vdash$      | $\vdash$            | 1        | $\dashv$  |             |        |
|   |  | 18       | # +                   | <u> </u> |           | $\dashv$        | +         | +               |                | -10            | <u>-</u>   | 67<br>68 |                 | +        | 4                   | <del>  -  </del> | _ -          | +         | <u> </u>            | 1.0        |  | 117          |                |          |           |          |               |                     |          |           |             |        |
|   |  | 19       |                       |          |           |                 | Ĭ         |                 |                |                |            | 69       | $\vdash$        | +        | +                   | $\vdash$         | +-           | +         | ╁                   | 24         | <del></del> -                                    | 118<br>119   | $\dashv$       | +        | 7         | -        |               | $\dashv$            | $\dashv$ | -         |             |        |
|   | -  | 20       |                       |          |           | 4               |           |                 |                | ]:             |            | 70       |                 |          |                     |                  |              |           |                     |            |  | 120          |                | ╁        | -         |          |               | $\dashv$            | $\dashv$ | ┥         |             |        |
|   | -  | 22       | 1                     | _        |           | $\dashv$        | -         | +               | +              |                | -          | 71<br>72 | -               | -        | +-                  | $\vdash$         | -            | +         | +                   |            |  | 121          | $\bot$         | $\perp$  |           |          |               |                     | $\equiv$ |           |             |        |
|   |  | 23       | /                     |          |           |                 |           |                 |                | 1              | `-         | 73       |                 |          | +=-                 | ++               | +            | ┿         | +                   |            |  | 122<br>123   | +              | ╁        |           |          |               | $\dashv$            | -        | 4         |             |        |
|   | -  | 24       | V                     | _        | 1         | 1               |           | П               |                |                |            | 74       |                 |          |                     |                  | I            |           |                     | 3.5<br>3.5 |  | 124          | 1              | +        | -         |          | H             | $\dashv$            | $\dashv$ | $\dashv$  | •           |        |
|   | -  | 25<br>26 | V                     | $\dashv$ |           | +               | 4         | +               | <u> </u>       | -              | -          | 75<br>76 |                 | 4        | <u> </u>            | $\sqcup$         | 1            | $\perp$   |                     |            |  | 125          | 1              |          |           |          |               | $\exists$           | 士        |           |             |        |
|   |  | 27       |                       |          |           | 1               | 1         |                 | · ·            | ╣.             |            | 77       | ╁┼              | +        | +                   | $\vdash$         | +            | ╁         | +                   | -1,        |  | 126<br>127   | -              | +-       |           | Н        |               | 4                   | 4        | 4         |             |        |
|   |  | 28       | 0                     | $\Box$   | $\Box$    | Ŧ               |           |                 |                | ]:             |            | 78       |                 | 土        |                     |                  |              |           | H                   |            |  | 128          | +              | +        | H         |          | -             | +                   | $\dashv$ | $\dashv$  |             |        |
|   |  | 29<br>30 |                       | $\dashv$ | +         | +               | -         |                 |                |                | <u> </u>   | 79<br>80 | $\vdash$        | +        | ╀                   |                  | $\perp$      | $\perp$   | $\Box$              |            |  | 129          |                |          |           |          |               | コ                   |          |           |             |        |
|   |  | 31       | 0                     |          | $\forall$ | +               | +         |                 | +              | 1.             | -          | 81       |                 | $\dashv$ | +                   | -                | +            | +         | +                   | -          |  | 130<br>131   | -              | -        | $\square$ |          | 4             | 4                   | $\bot$   | 4         |             |        |
|   |  | 32       | V                     |          | $\Box$    |                 |           |                 |                |                |            | 82       |                 |          |                     |                  | 十            | +         | +                   | - 1        |  | 132          | +              | +        |           |          | 7             | $\dashv$            | +        | -         |             |        |
|   |  | 33<br>34 | 7                     | 4        | -         | -               | +         | $\sqcup$        | 4-             |                |            | 83       | Į.              | Ŀ        | $\Box$              |                  | I            | Ĺ         | $\Box$              |            |  | 133          |                |          |           |          | $\neg$        | $\dashv$            | $\pm$    |           |             |        |
|   |  | 35       | +                     | 1        | +         | +               | +         | -               | +              | -              |            | 84<br>85 | -+              | +        | +                   | $\vdash$         | +            | ╀         | $\vdash \vdash$     | ×[         |  | 134          | 4              | _        |           | J        | $\Box$        | $\rightrightarrows$ | $\perp$  | $\exists$ |             |        |
|   |  | 36       |                       |          |           |                 |           |                 |                |                |            | 86       | $\dashv$        | +        |                     | +                | ╁            | ╁         | +                   | }¦-        |  | 135<br>136   | +              |          |           | $\dashv$ | $\dashv$      | +                   | +        | ž.        |             |        |
|   | $\vdash$   | 37<br>38 | +                     | 4        | 4         | +               | -         | $\sqcup$        | 4              | ]<br>],        |            | 87       | $\Box$          |          |                     |                  |              |           |                     |            |  | 137          |                |          | T         | +        | +             | $\perp$             | +        | $\dashv$  |             |        |
|   | $\vdash$   | 39       | +                     | +        | ╁         | ╁               | +         | -               | +              | 1              | -          | 88<br>89 |                 | -        | H                   | +                |              | $\perp$   |                     |            |  | 138          | $\bot$         |          |           |          |               | $\Box$              | ユ        |           |             |        |
|   |  | 40       |                       |          |           |                 |           |                 | $\top$         |                |            | 90       | $\dashv$        | +        | +                   | $\pm$            | ╁            | ╁         | H                   | -          | $\dashv$   | 139<br>140   | +              | $\vdash$ | $\dashv$  | $\dashv$ | +             | +                   | +        | 4         |             |        |
|   |  | 41 42    | 4                     | 4        | _         | $\perp$         |           |                 |                | Ě              |            | 91       |                 |          |                     |                  |              |           |                     |            |  | 141          | +              | $\vdash$ | $\dashv$  | +        | $\dashv$      | +                   | +        | $\dashv$  |             |        |
|   | <del>                                     </del> | 42       | -  -                  | +        | +         | +               | +         | $\vdash \vdash$ | +              | 19             |            | 92<br>93 |                 | -        | $\Box$              |                  | F            | _         |                     |            | $\Box$   | 142          |                |          | I         |          | $\perp$       | 土                   | 工        | J         | •           |        |
|   |  | 44       | 1                     | 1        |           |                 |           | $\vdash$        | +              |                |            | 94       | +               | +        |                     |                  | +            | -         | —-                  | 100        |  | 143<br>144   | -              |          |           | 4        | - -           | 4                   | $\bot$   | 7         |             |        |
|   |  | 45       |                       | T        | $\perp$   | T               | $\square$ |                 |                |                |            | 95       |                 | 士        |                     | 上                |              |           |                     |            | $\dashv$   | 145          | +              | $\vdash$ | +         | +        | +             | +                   | +        | 1         |             |        |
|   |  | 46 · 47  | -                     | +        | -         | -               | -         |                 |                |                |            | 96       |                 | $\bot$   | $\prod$             | $\perp$          | $\perp$      | Г         |                     |            |  | 146          |                |          |           |          | Ť             | 1                   |          |           |             | 45 m d |
|   | <del></del>                                      | 48       | +                     | +        | +-        | +               | +         | -               | -              | l              |            | 97       |                 | -        | $\vdash \downarrow$ | $\perp$          | 4            | <u></u>   | LJ.                 |            | $\perp$  | 147          |                | LÍ       | _ [       | T        | T             | T                   | T        | .]        |             |        |

Application No.

Applicant(s)